



SOTAX HT 1 Hardness Tester



- Testing of four essential physical parameters: hardness, thickness, diameter/length and weight of a tablet
- Equipped with the patented Auto Alignment™ device, even the most difficult of tablet shapes are automatically aligned properly to prevent erroneous hardness measurements
- Two hardness measurement principles "Constant Speed" or "Constant Force" with a measuring range of up to 1000 N can be applied to match existing testers on the market
- Testing jaws can also be used to measure tablet thickness replacing the need for an external caliper
- With integrated balance option, tablet weights can be recorded
- Programmable operating conditions can be entered via the front key pad with graphical display
- Connection to optional printer for fast reporting
- Simplified and user-friendly calibration
- Optional control via 21 CFR Part 11 compliant Q-Doc Quality Documentation Software with LIMS capabilities for paperless reporting

Our design fits everywhere



The SOTAX HT 1 Hardness Tester with the revolutionary Auto Alignment™ device rapidly aligns all common forms of tablets for trouble-free testing

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Technical data

Measurement principles	Constant Speed and Constant Force
Range	5–200 mm/min, 5–100 N/sec
Measurement range:	
Hardness	2–1000 Newton
Accuracy	+/- 1 Newton
Diameter (Optional)	0.00–30.00 mm to 60 mm
Accuracy	+/- 0.01 mm
Thickness	0.50–100.00 mm
Accuracy	+/- 0.01 mm
Weight	20.0 mg–100.0 g
Accuracy	+/- 0.1 mg
Power	230 V/50 Hz or 110 V/60 Hz
Interface	RS-232-C
Width/depth/height	290/290/250 mm
Weight	ca. 8 kg

Order information

Part #	Description
8700	SOTAX HT 1
8707	Set for manual weight calibration (weights not included)
9248	Label printer support stand
C100-0051	Label printer EPSON TM-4210



Auto Alignment™

Description

The standard SOTAX HT 1 measures tablet thickness, diameter or length, and hardness. It is also equipped with a connection for an optional balance (to record tablet weight) as well as a connection for an optional external digital caliper (to record tablet thickness). The unit is manufactured with high-quality material made of galvanized, powder-coated sheet metal to endure the toughest of production sites. It requires no regular maintenance.

Features

The SOTAX HT 1 is the only tester available with the patented Auto Alignment™ device to automatically align correctly the tablet for proper measurements. Special jaws are no longer needed for small or oblong tablets. Thickness measurements can also be reported with the test jaws by turning the tablet on its side. The use of an external caliper is also no longer needed.

The measurement of tablet hardness can be switched from the "Constant Speed" or "Constant Force" principle to match your existing hardness tester. The movement of the jaw speed and force as well as the sensitivity is also adjustable.

The program menu allows the user to define and store methods for various products including predetermined product specifications. Hardness can be measured in any of Newton, Strong Cobb or Kilo pounds. Thickness, diameter and length can be reported in inches or millimeters. Tablet weights can be read in milligrams or grams.

Print-outs of the report and statistics can be sent to a label or standard printer. It is also possible to connect the unit to a PC for reporting to Q-Doc Quality Documentation Software. Q-Doc can be connected to a LIMS and can be networked.

SOTAX has also greatly improved the ease of calibrating. The adjustable calibration date can be set to expire and can be printed out.

Optional accessories

- Balance: Mettler or Sartorius
- Digital caliper
- The Q-Doc Quality Documentation Software with a PC. Q-Doc permits storage of a large number of methods as well as test reports. Customized reports are also possible. Q-Doc is a validated Windows 2000/XP software which fully complies with 21 CFR Part 11. Q-Doc is also available with LIMS capabilities.

Validation and qualification

The SOTAX Hardness Tester HT 1 meets all pharmacopoeia requirements. The appropriate qualification documentation (IQ/OQ) can be supplied with each system. Q-Doc software is delivered with IQ documents and a validation certificate. If required, system and software validation and qualification can also be carried out in the customer's laboratory by SOTAX or by SOTAX qualified agents.

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